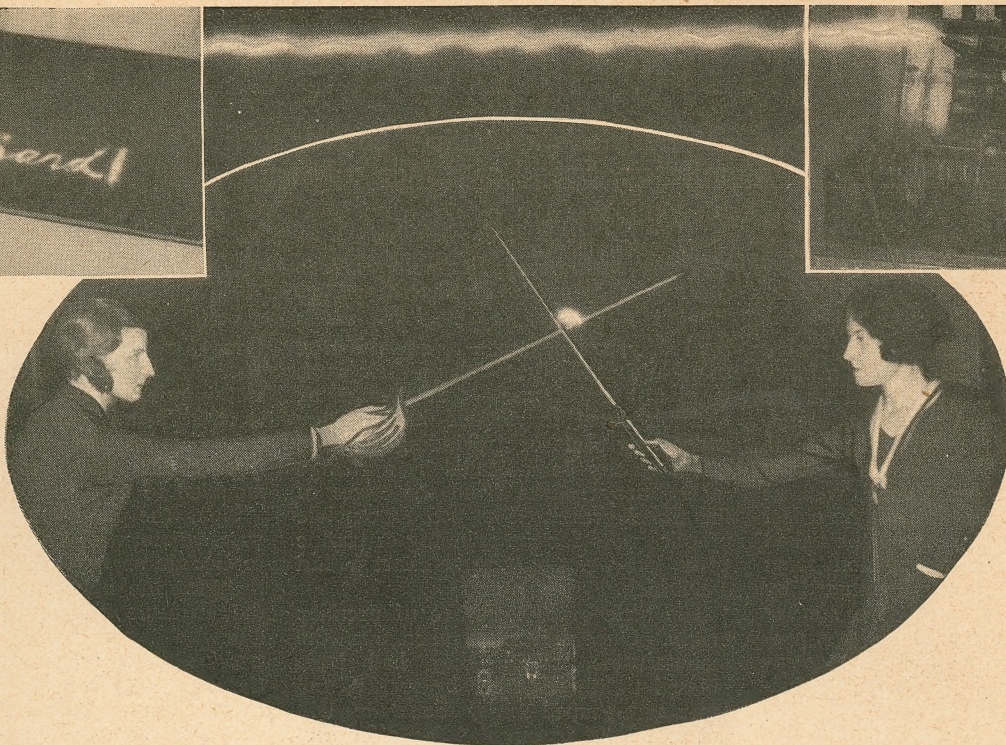


Fig. 1—Letters of metal paint applied to a bakelite or hard rubber panel, in back of which is placed a grounded metal plate, will glow when touched by the electrode.



Above the oval.  
Fig. 2—A hair-thin wire, when connected to the machine will exhibit this remarkable halo. Left.  
Fig. 3—An electric duel may prove more exciting than the real thing.

# Fun With a Violet Ray Machine

The Old Fashioned High Frequency Machine Stored Away in Your Attic Will Provide an Endless Source of Merriment Through These Spectacular Demonstrations

By Thomas Malloy

MANY people have a violet ray machine lying around. They do not realize that they can perform a number of striking and very interesting experiments with it. Several attractive demonstrations which can very well be used for impromptu parlor and lodge entertainments are here described.

The average violet ray machine operates on what is known as the Oudin high frequency arrangement. The hook-up includes an interrupter comprising a magnet coil surrounding an iron wire core which periodically attracts a vibrator spring. The 110-volt alternating or direct current thus interrupted through a pair of silver or tungsten contacts on the interrupter spring and screw respectively also passes through the primary coil of the Oudin high frequency transformer. A high frequency current is set up in the Oudin primary, due to the action of the high voltage condenser. This high frequency current in the Oudin primary induces a current of much higher voltage and similar frequency in the secondary coil of the Oudin transformer.

The high voltage, high frequency current in the secondary winding manifests itself in a spark discharge.

The average small size violet ray machine yields a spark about one inch long when a piece of wire is inserted in the socket in which the glass vacuum electrode is ordinarily placed.

The production of letters of fire as illustrated in Fig. 1 is a very beautiful

demonstration. This display is of unusual interest as it was one of the early experiments conducted by Nikola Tesla nearly 40 years ago. The characters and even complete sentences may be formed of wire, metal foil or gold or aluminum paint on the surface of a piece of bakelite or hard rubber about 3/16 of an inch thick. A metal plate somewhat smaller than the panel is placed behind it and connected to a ground such as a water or steam pipe. A ground connection should be used because a more powerful spark discharge is obtained.

Hair-thin insulated wires when connected directly to the high voltage terminal will exhibit a most colorful glow. If you wish, you can shape the wire to interesting forms. Fig. 2 will give you an idea of the effects which can be achieved.

If you are a fairly good showman, a great deal of fun can be evolved before an (Continued on page 164)

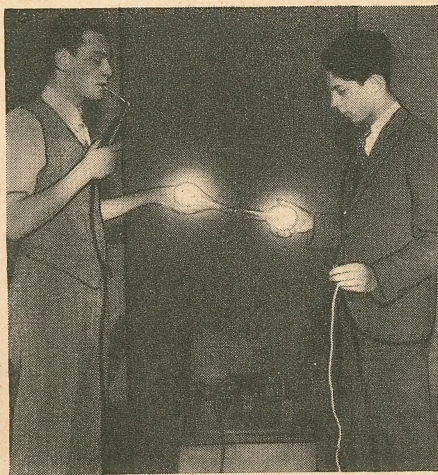


Fig. 5—The circuit is from the high voltage terminal to a nail in the subject's mouth. The high frequency current travels through his body and jumps to the lamp filament. Thence to the filament of the second lamp, to the hand of the individual holding it and to the ground through the wire.

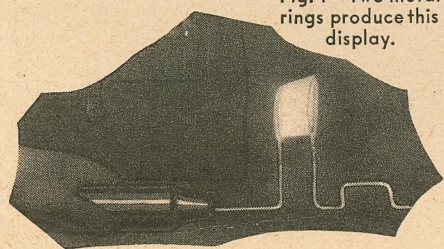


Fig. 4—Two metal rings produce this display.

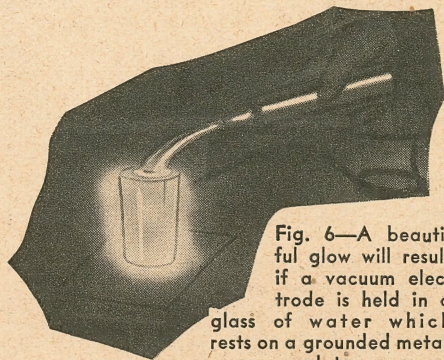


Fig. 6—A beautiful glow will result if a vacuum electrode is held in a glass of water which rests on a grounded metal plate.



## Fun with a Violet Ray Machine

(Continued from page 139)

audience by inviting one of the crowd to fight a duel with you as shown in Fig. 3. If you wish, the high frequency current can be taken through your body. The spark will jump from the metal rod held in your hand to your opponent's foil. With a more powerful apparatus than the small hand type, the effect is more startling both to the audience and the would-be duelist.

You will be surprised, no doubt, by the results obtained even with the one-inch spark apparatus. The average person is surely not accustomed to having sparks play about his body and the writer has seen many otherwise phlegmatic men become frightened when introduced to electrical spark phenomena that threaten to get on such close relations as jumping to their skin or even to a sword held in their hands.

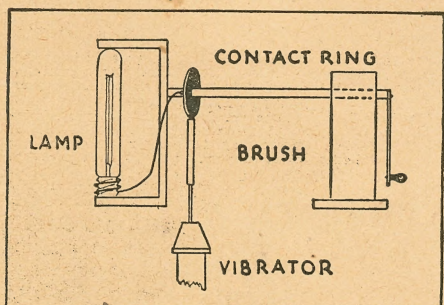


Fig. 8—An easily made hand rotator, to be used as explained in the text.

A very pretty experiment is that illustrated in Fig. 4 which calls for the use of two wire circles. The smaller ring is placed either within the larger one or to one side of it. One ring is connected to the vibrator and the other is grounded. When so arranged a cone of sparks is produced between the two. Those having the use of one of the larger violet ray machines will obtain a more spectacular effect as the rings can be separated farther.

Using either incandescent lamps, even those with broken filaments will do, or the glass vacuum electrodes supplied with violet ray apparatus, many beautiful and entertaining exhibitions may be successfully completed. With the smallest violet ray machines, one of the first experiments you can make is that illustrated in Figure 5. As can be seen, the showman holds the electrode of the high frequency machine close to a nail which protrudes from his mouth. In one hand he holds a lamp by the round end. A second person grasps another lamp similarly so that the metal bases of the two bulbs make contact. This individual also holds a wire which is connected to the ground. The high voltage discharge passing through the two bodies will cause the lamps, through which it also flows, to glow with a most weird, bluish-white light.

Three ways in which to light an ordinary incandescent lamp are shown in Figure 7. The topmost lamp is illuminated by allowing the spark to jump from the charged wire electrode to the

metal base of the bulb. The lamp in the center is held in the hand and the spark jumps to the metal base. A stronger illumination is obtained from the bottom bulb by holding the metal base firmly against the electrode.

For a novel and brilliant experiment you can hold either a lamp or vacuum electrode in your hand and approach it to the surface of a glass of water (see Figure 6). The liquid may be colored by dyes or other means. A pretty effect is obtained when the glowing lamp or tube is immersed in the water. The ground connection may be made to the water itself, but placing the glass on a grounded metal plate works very well indeed.

Some unusual effects can be worked out by arranging one or more lamps or vacuum electrodes on a revolving disc. A fan motor which is probably gathering dust in your attic just now may be put to very useful service for this experiment. You will be agreeably surprised at the many varied patterns that will be produced by changing the frequency of the current in the Oudin coil. This is done by adjusting the vibrator screw. You can also vary the speed of the motor. For best results variable resistance should be connected in series with the motor. A hand rotator which you can very easily make yourself can be used as illustrated in Fig. 8.

Most startling and impressive is the situation that you can produce by showing your friends that you have electric hands. Suppose that when persons attempted to shake hands with you, a

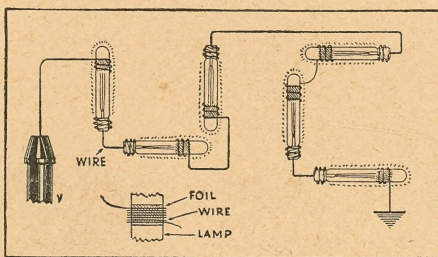


Fig. 9—How to connect several lamps for high frequency experiments.

spark jumped unexpectedly to their fingertips giving them a mild shock! You can stage this as a little surprise for some of your good friends. The high frequency apparatus can be placed in a closet or in another room if necessary so that no noise will be heard to arouse suspicion. Then by connecting the coil to a piece of wire netting or fly screen placed under the rug upon which you are to stand, you are about ready for this performance.

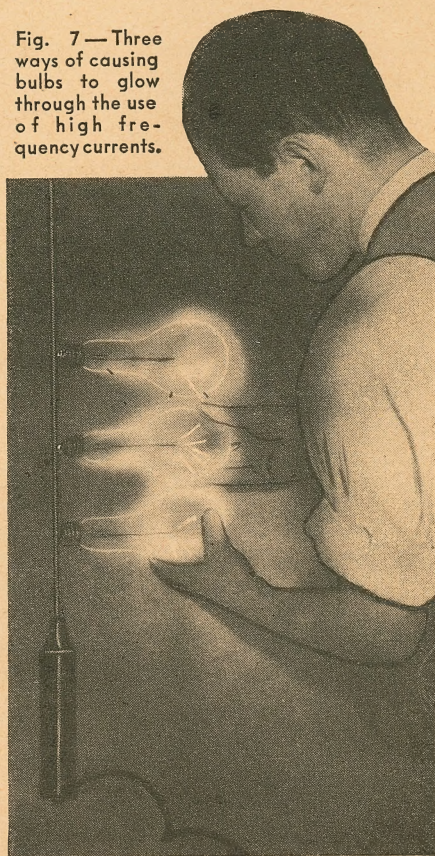
A phoney "electric chair" always provides a lot of excitement and plenty of fun. The apparatus can be used for platform lectures and also, "shush"! What a royal "goat" this will make for fraternity initiations. Having actually been stung by one of these "electric chairs," the writer has sworn off joining any more benevolent organizations, unless he can personally inspect the

initiation room. Even then he may be sadly fooled for the chief of the degree team may bring the violet ray apparatus along in his pocket.

Surprising as it may seem the smallest violet ray machine will produce a world of fun for parties, bazaars and other entertainments if a wire from the apparatus is joined to a piece of wire screen placed under a thin cloth cover in the seat of a chair. You will get many a good laugh watching the expressions, indignant and otherwise, on the faces of those who accept the challenge to sit in the chair. Not many will remain seated long, for the first spark usually is the stimulus for a wild yell and a meek admission that the device is too much for the daredevil. The larger high frequency coils, yielding a two to four inch spark will of course give much more spectacular and interesting results. A word of caution at this point—do not place your hand or any other part of your body in contact with grounded metal such as a radiator or sink and then extend your hand towards the charged wire of the high frequency apparatus. This usually gives an unpleasant shock.

Illuminated letters—quite large in size—which will serve nicely to introduce your act, may be made by connecting a number of vacuum electrodes or incandescent lamps, preferably those of the straight tubular type in series as diagrammed in Figure 9. Where it is necessary to make a connection to the free end of the lamp, a piece of tin or copper foil may be wrapped around the glass and bare wire fastened around it.

Fig. 7—Three ways of causing bulbs to glow through the use of high frequency currents.



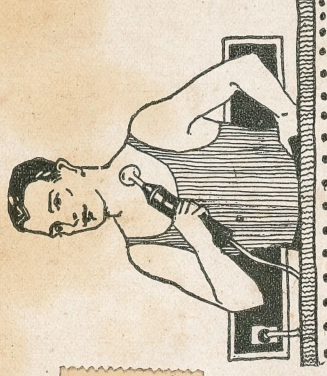


# Violet-Rays

Aids the

## Life Process

For prices of Electrodes  
shown in this Catalogue  
write your nearest Store





**F**OR over a quarter of a century, Violet Rays have been endorsed and used successfully by the medical profession in the treatment of almost every known ailment.

The number of treatments given daily in this country runs into the thousands. Violet Rays are as much a part of the progressive physician's arsenal of disease-destroying weapons as any of the old standard drugs.

## Easily Understood

**M**ANY people look on Violet Rays as verging on the magical or supernatural. Others confuse them with the X - Rays and feel physicians alone can administer them.

There is nothing mysterious about Violet Rays. The beneficial results they give are due to scientific causes. Harmless, painless, they can be used satisfactorily by anyone. Violet Rays can only help the user; they cannot possibly harm or hurt.



Violet Rays harmless—even to infants. There is no shock or pain.

## Metabolism Explained

**Y**OUR body is like a honeycomb of billions of microscopic cells. These cells make up your tissue, bones, blood, nerves, hair, nail. Though the various cell groups may differ in structure, they all—live!

To live, they must—

First, absorb sufficient oxygen to feed the cell and keep it vigorous;

Second, burn up the oxygen absorbed; Third, throw off the waste products created by this combustion.

If any one of these three functions stops or is hindered or thrown out of balance the health of the cell affected suffers; if all of them stop, the cell dies.

## All Constitutional Diseases Basically Alike

**C**ONSTITUTIONAL diseases are made possible by the failure of certain groups of body cells to carry out the Life Process properly.

Every constitutional ailment—whether it be rheumatism, baldness or any other—can be traced to the failure of certain cells to either absorb sufficient oxygen, burn it up properly, or completely eliminate the waste.

In rheumatism, the failure is in the improper elimination of the waste that clogs up in the tissues and causes the painful swelling.

In baldness, the scalp cells have failed to absorb enough oxygen to keep them vigorous and strong enough to grow hair.

The causes of every constitutional ailment can be similarly traced to a non-functioning of some part of the Life Process of certain cells.



## Violet Rays Promote the Life Process

**V**IOLLET RAYS have been proved to have the power of being able to painlessly penetrate the tissues, reach the ailing cells, cause them to absorb oxygen, burn it up, throw off the waste created—in other words, restore the sick cells to normal functioning under the Life Process, thus putting them in condition to fight for health.

Medical science has found that Violet Rays aid the cells tremendously in carrying on the Life process; hence the high esteem in which they are held by the members of the medical profession.



## Medical Research Enlarges Violet Ray Usefulness

IN the paper he read before a body of scientists in which he described his invention, Nikola Tesla showed that even he did not realize the curative possibilities of the results of his great genius. It has proved to be an infinitely greater boon to mankind that he ever dreamed.



Out of the experiments and experience of more than a quarter of a century, the merits of Violet Rays have been definitely established, their use standardized, the effects to be expected from their use in different diseases accurately determined.

Violet Rays are used by physicians throughout the country with remarkable success.

## Scientifically Accepted Effects of Violet Rays

- 1—Cause cells to absorb more oxygen.
- 2—Speed up burning of oxygen.
- 3—Increase elimination of waste.
- 4—Restore cells to health.
- 5—Increase blood supply in given area.
- 6—Stimulate secretions of glands.
- 7—Raise body heat without temperature.
- 8—Destroy germs.
- 9—Soothe the nerves; build nerve tissue.
- 10—Remove dead tissue and adhesions.
- 11—Lower blood pressure.
- 12—Promote normal growth.

The above are the effects that Science has found Violet Rays have on the body. Is it any wonder that Violet Rays are recognized, endorsed, used by physicians?

## Ailments

Successfully Treated with  
VIOLET RAYS

Asthma	Influenza
Boils	Goitre
Brain Fog	Lumbago
Bronchitis	Nervousness
Catarrh	Neuralgia
Colds in Head	Neuritis
Colds in Lung	Obesity
Constipation	Pimples
Dandruff	Pneumonia
Deafness	Prostate Gland
Dyspepsia	Rheumatism
Earache	Scars
Eczema	Skin Diseases
Eye Disease	Sore Throat
Falling Hair	Sprains
Hay Fever	Stiff Neck or Joints
Headaches	Tonsilitis
Insomnia	Ulcers

## Instructions For Operating Machine

1. Attach the plug to any socket, insert the electrode to be used, and turn on the current.
2. To increase the current, turn the adjusting screw to the right. The mild flow or current is obtained by unscrewing to the left.
3. In giving the indirect treatment, place metal electrode in hand, turn on the current, and draw the current to any part of the body with the fingers. This method can be used for body massage, facial massage and scalp treatment. No. 1 electrode may be used instead of No. 6 although it is not so strong. Use lubricant for body treatments.
4. Do not tamper with the apparatus when out of order but return to the factory for adjustment. Be sure that fault lies in generator before returning it for repairs. Oftentimes a burnt out leaky electrode is the cause of complaint. When ray shows green instead of violet, the fault is in the electrode. To test electrode put some kind of metal, or preferably, electrode No. 6 into handle and make contact against some other metal. If sparks are generated, fault lies in electrode and not the generator.



5. Do not use any tonic containing alcohol on the hair.

6. The apparatus should not remain in constant operation longer than 12 minutes at its greatest output. Allow to rest for half hour between treatments.

7. Start the treatment with a mild current and gradually increase.

8. When through using the machine, be sure and turn off the current at the switch, or, better still, detach plug from socket. The current is not off when the adjusting screw is turned tight to the left. Although no current may be passing into the electrode, yet the current is passing through the coils and they will become overheated. **Damage resulting from this cause is only the result of carelessness and is not covered in our guarantee.** The safest method is to unscrew the plug from the socket when the machine is not in use.

9. When inserting electrodes into the nozzle of the machine do not try to force them into the socket should they fit a little tight. Hold the electrode firmly in the hand and while pushing it into the socket twist it a half turn to the right. This will help to spread the socket prongs and permit the electrode to slide in more readily. When removing the electrode twist it a trifle to the right as you pull on it. Nearly eighty per cent of broken electrodes can be eliminated by following the above instructions carefully.

## General Instructions

**B**EFORE attempting to treat any ailment it is necessary that the instructions for operating machine be thoroughly understood.

The general technique for using Electrodes Nos. 1, 2 and 3 is to brush them over the area treated quickly and lightly. They should not be pressed tightly against the skin or any rubbing motion used. In certain cases it is advisable to interpose a light piece of flannel between electrodes and the skin itself so as to cause a short spark between electrode and body.

Electrodes Nos. 4, 5, 10, 11A, 15 and 18 should be pressed against the skin very lightly and rotated gently having the point of contact between electrode and skin acting as the axis of rotation. In using these electrodes the current should not be turned on over medium strength. Sparks may be avoided by placing fingers around top of electrodes before applying to skin and before removing. By applying the electrode quickly to the skin and withdrawing quickly no sparks will be experienced.

In treating any orifice of the body, first insert the electrode into the orifice without attaching the machine. Then use electrode No. 6 in the machine. To make contact hold the metal electrode against the metal cap of the glass electrode. This is the most simple method of giving official treatment and prevents the electrode from moving while inserted. Always lubricate official electrodes.

The average length of treatment is between 5 and 10 minutes once or twice daily. Treatments can be given more often if desired. This is determined by the patient. It is advisable to start with a mild current increasing the current as you go along until it is comfortable. Current can be regulated to suit the patient and strength of current is determined by patient.

Special instructions for operating Ozone Generator on page 22.

## How to Treat Various Ailments With the Violet Ray

### Asthma

Caused by a sudden narrowing of the smaller air tubes in the lungs, due to a swelling of mucous membranes. The use of Electrode No. 1 over body areas A-8, Electrode No. 5 over A-7, and inhalations from the Ozone Generator will soothe the inflamed tissues and nerves, reduce the swelling of the mucous membranes, correct the faulty elimination, restore the cells to health.

### Boils

Result of pus-producing germs attacking run-down tissues. Electrode No. 1 over boil and surrounding area will destroy germs, deaden pain, soothe nerves, restore cells to normal functioning, cut short duration and seriousness of attack.



### Bronchitis

Inflammation of mucous membrane of bronchial tubes. Electrode No. 1 on areas A-8 and B-8 until skin reddens brings quick relief. Its repeated use with inhalations from Ozone Generator relieves congestion, kills germs, soothes inflamed tissues and surfaces, increases oxygen in blood, produces a feeling of well being.

### Catarrh

Affects nasal organs; if neglected, extends to front cavities of head, to throat, to tubes leading to ears, and passing down threatens patient with confirmed pulmonary disease. Made possible by debilitated condition of system complicated by swelling of mucous membranes. Catarrh yields with surprising quickness to ozone inhalations that improve the circulation of the mucous membranes and clear up "stuffedness" in the head. Electrode No. 1, applied in the region of the nose, restores the flow of blood to the affected tissues so that the patient will feel like a new person in a week.

### Constipation

Generally due to sluggishness of the bowels caused by debilitation of the nerves or muscles controlling their action. The use of electrode No. 1 at A-13 and A-15 stimulates the nerves and muscles responsible for the bowels, wakes them up, restores their billions of cells to activity, motivates the bowels without recourse to drugs.

### Deafness

Partial and temporary deafness are usually caused by a swelling of the mucous membranes in the Eustachian tubes and the middle ear that results in a congestion. The use of Electrode No. 1 externally in the ear area has a general revitalizing effect, while the insertion of Electrode No. 11 or 11-A in the ear reduces the inflammation, helps break down the congestion, restores the delicate ear organs to health.

### Dyspepsia

Largely the failure of the digestive organs to produce enough of the digestive juices to properly digest the foods consumed. Violet Rays, together with a proper diet, afford permanent relief. Electrode No. 1 applied to areas A-10 and A-13 stimulate the digestive organs and cause them to resume their normal functioning.

### Eye Diseases

The technique is simple: Electrode No. 18 over the closed eye—that's all! The beneficial results are due to the revitalizing the cells of the eye to a normal functioning of the Life Process.

### Goitre

An enlargement of the thyroid gland..... Electrode No. 5 over affected part eliminates and absorbs the unnecessary and waste tissues.

### Hay Fever

Possibly only when the nervous condition is below par, the fine blood vessels in the mucous membrane dilated, and irritation occurs from some substance like the pollen of plants. Violet Rays can correct the first two conditions before Hay Fever time by tuning up the entire nervous system and strengthening and toughening the dilated tissues.

When suffering with Hay Fever, use Electrode No. 1 and the Ozone Generator as you would with a cold. The former tones up the affected tissues; the latter soothes them and allays the irritation.

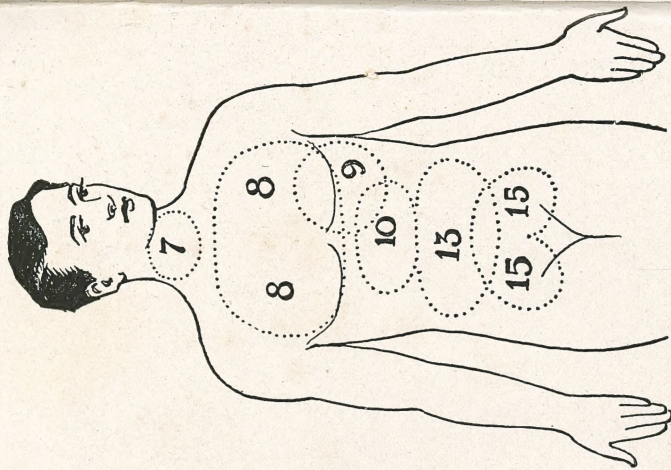
### Headaches

A headache is the symptom of some constitutional disorder; it is not a distinct disease. The diagram below shows how you can tell the cause of any headache. It will be useful in suggesting the probable line of treatment.

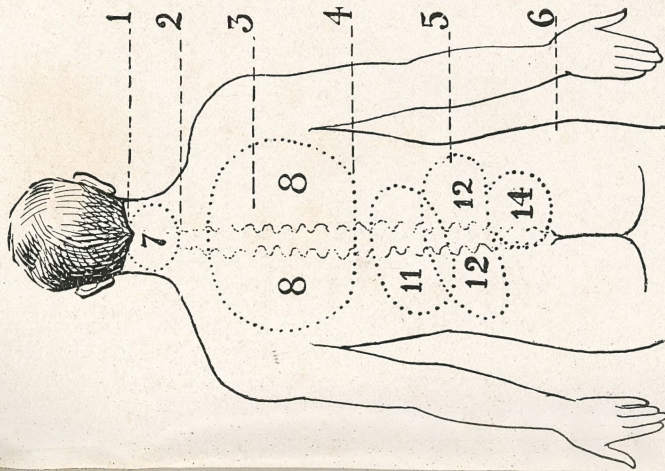


Showing areas where headaches occur.





1. Base of Brain.
2. Center of Neck.
3. Middle of Shoulder.
4. Middle of Back.
5. Hips.



6. End of Spine.
7. Neck and Throat.
8. Lungs.
9. Heart.
10. Stomach.
11. Liver.
12. Kidneys.
13. Bowels.
14. Spleen.
15. Loins.



Headaches at A or B are congestive or frontal and may be relieved by passing Electrode No. 1 back and forth over the seat of pain. At A they may come from errors in refraction, frontal sinus disease or nasal disease. Stomach diseases also frequently cause pain at A. Constipation, A-B. Decay of front teeth, A-B. Anemia, endometritis, bladder disease, C. Middle ear disease, throat disease, eye disease, decayed teeth, D-E. Womb disease, spinal irritation, nervousness, E. Ovarian reflex pains usually at C and E. Neurasthenic headaches involve the back of the neck.

### Insomnia

Adequate and refreshing sleep is necessary to good health. Inability to sleep is a very troublesome symptom and one which no one should neglect. There is no substitute for sleep and the act of medicine cannot supply its lack. Dependency on drugs is dangerous, depressing, and has often been fatal.

Using Electrode No. 1 at areas A-7 and B-7, tranquilize the central nervous system, equalize the circulation, restore the capacity to rest.

### Influenza

An infectious disease, similar to a cold, attacking the respiratory organs, and debilitating the entire system.—Inhalations from the Ozone Generator at the very beginning often "kills" the disease before it gets a foothold. Their use shortens the sickness in all events by killing the germs. This treatment combined with the use of Electrode No. 1 over the spine eyes and sides of the nose, also allays the irritation of the mucous membranes, builds up the sick cells, soothes the nerves, increases the general body vitality.

### Nervousness

A derangement of the nervous functions. Readily relieved and overcome by Violet Rays. Latest investigations show that Violet Rays not only soothe the nerves but actually rebuild the nerve tissue. Electrode No. 1 over the spine at areas A-7, B-7 and A-13 usually produce immediate results. By holding Electrode No. 6 in the hand a few minutes each day, the results secured will be beyond your expectations; tension relaxed, worries gone, the "blues" departed.



Relaxation for Sleeplessness or Headache

### Neuralgia

Caused by insufficient nutrition of the nerves.—Aided by Electrode No. 1, Violet Rays will unflinchingly reach those starved, tortured nerves, stop the pain, start the blood circulating, force the dormant body cells to activity and feed the nerves. The first treatment may only give relief for a short time and the pains may return, but with lessening severity. Relief from the second treatment lasts longer and so on until the relief is permanent.

### Neuritis

Inflammation of a nerve—is best treated by applying Electrode No. 1 to seat of pain. In cases where the pain is intolerable, the use of Electrode No. 6 and the indirect treatment is preferable. The general beneficial effects are the same as in neuralgia.

### Paralysis

Not disease but a symptom of certain forms of injury causing the partial or complete loss of the muscle.—While some good results may be secured by a very few treatments with Electrode No. 1 along affected area, more obstinate cases require several months. Violet Rays reach the seat of the trouble, stimulate the cells, start the Life Process functioning in the deadened tissues, awaken the sleeping nerve centers.



## Prostate Gland

Caused by the enlargement of the gland in many men over 40. Our special Electrode 9 designed by a physician of large knowledge and experience is being used successfully by many. It tends to reduce the size of the gland to normal.

## Rheumatism (Lumbago)

Violet Rays can cure rheumatism and similar ailments quicker than any other known curative method. No other agent is so safe and sure a pain reliever. Often the stiffness and pain from a new lumbago is banished in five or ten minutes. There's nothing to equal Violet Rays for rheumatism!

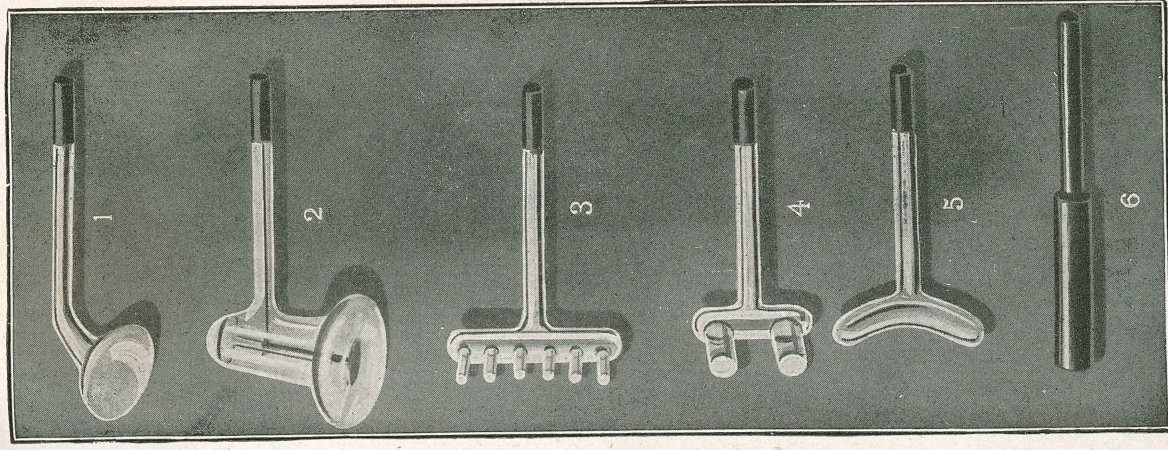
Rheumatism is the result of improper elimination of the uric acid crystals and the consequent debilitation of the tortured cells. Before a cure can be made this waste, whose clogging causes the inflammation, must be eliminated and the sick cells re-

## Rheumatism or Body Treatments

vitalized. The use of Electrode No. 1 over the affected parts starts this elimination. The experiments of Professors Apostoli and D'Arsonval proved that Violet Rays increase the elimination of uric acid, carbonic acid and water 40% to 50%, reducing correspondingly the uric acid in the system. With Violet Rays, rheumatism in any form will gradually disappear and the improved nutrition will finally correct the fault at the fountain head.

## Sore Throat, Hoarseness, Tonsillitis

All these ailments are the result of inflammatory conditions of the throat, vocal cords, or tonsils. Electrode No. 5 at A-7 acts upon the muscle fibers and blood vessels, rapidly abates congestion and inflammation, induces a new blood supply, tones up the nervous mechanism and produces benefit with remarkable certainty and rapidity.





## Violet Ray Electrodes

ALTHOUGH the Violet Ray outfit you bought from us is equipped with a selection of the most important electrodes or applicators, you may make it still more complete and greatly increase the satisfaction and comfort of its use by getting additional electrodes, which, as you will see from the illustrations and descriptions, are specially made for the treatment of a long list of ailments. The tips are uniform so that all electrodes will fit the standard generator handle you now have.

Write your nearest store for prices on any of the electrodes in which you are interested.

No. 1 General Electrode.—Used for facial and body treatments, and for any surface application. This electrode is constructed in such a manner as to prevent the current from heating, which is likely to cause it to break. For this reason it will outlast other makes.

No. 2 Condenser Electrode.—As the name implies, it condenses the current, and produces a strong even flow; also generating electrical heat which is very desirable in deep seated cases. Used for Rheumatism, Lumbago, Neuritis, Neurasthenia, Skin Disease, etc. This Electrode can be used in place of the No. 1 or No. 6, where stronger spark is desired.

No. 3 Comb-Rake Electrode.—Used for all scalp treatments; Falling Hair, Dandruff, Gray Hair and for stimulating the hair roots and cells.

No. 4 Spinal Electrode.—For all Spinal treatments. Arranged so that it fits over both sides of the vertebrae. For Reflex Spinal action, use the Metal Spinal Electrode No. 30.

No. 5 Throat Electrode.—Designed so as to fit over the neck. Very excellent results have been accomplished with this electrode in Goiter, Tonsillitis, Double Chin and Bronchial Troubles. Any excessive formation is eliminated.

No. 6 Metal Electrode.—This delivers a strong current and is excellent for general tonic and where constitutional effects are desired. When held by the patient there is no muscular contraction, merely a sense of warmth and glowing permeating the entire body. The current can also be drawn to any part of the body by using the No. 1 electrode or the fingers of the operator.

## Insulated Electrodes



No. 9 Prostatic Electrode.—Designed so that it fits directly over the prostate gland. In many cases this electrode can also be used for vaginal work.



No. 10 Internal Throat Electrode.—Used for tonsillitis, hypertrophy of the tonsil, ulcers of the tonsils, etc.

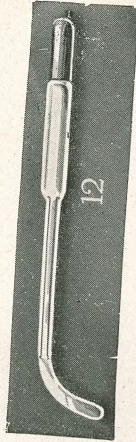


No. 11 Nasal and Ear Electrode.—Used for rhinitis, nasal catarrh, etc. Same electrode can be used for uterine work.



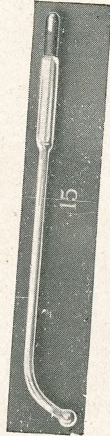
No. 11-A Special Ear Electrode.—For deafness and earache. Insulated to the tip and fits in ear passage.





No. 12 Urethral Electrode.—Used for cystitis, strictures, gonorrhea, etc.

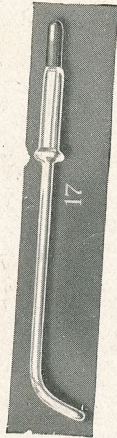
### Plain Electrodes



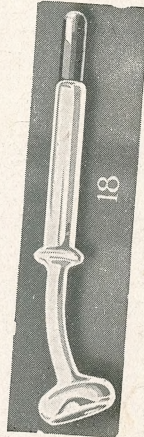
No. 15 Throat Electrode.



No. 16 Nasal Electrode.



No. 17 Urethral Electrode.



No. 18 Eye and Face Electrode.—For stimulating the optic nerve, and any Eye troubles. Also used for complexion. Treatments are very pleasant and beneficial.



No. 19 Spatula or Tongue Electrode.—Used in place of the No. 1 in crevices of the face or body, or where No. 1 is too large to use.



No. 20 Cautery Electrode.—This has a platinum wire sealed in the glass. For removing warts, moles, or growths of any nature, it cannot be excelled. Very seldom is it necessary to give more than two treatments, most often one application is all that is necessary. In use glass tip should be pushed down over end of wire.



No. 30 Special Metal Electrode for Reflex Action.—In order to stimulate any muscle or nerve, place this Electrode in contact and then turn on the current, thus avoiding the spark. The organs or muscles can be made to respond as to direct treatment. Used mostly for stimulating nerve centers at the Spine.

The following accessories are also available.  
Write for prices.

Lubricant—6 ounce bottle.

Inhalant—1 ounce bottle.

Inhalant—6 ounce bottle.



## The Production of Ozone with Violet Rays



Ozone Treatments

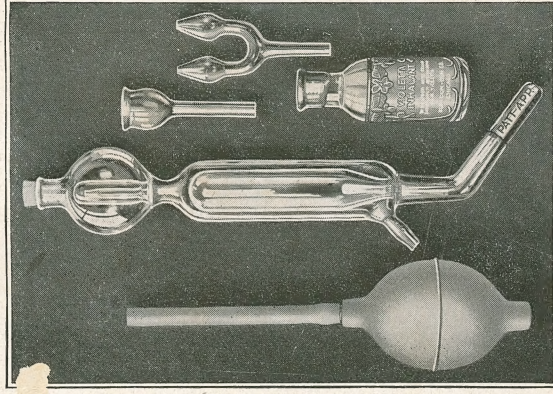
**WHENEVER** an electric spark passes thru the air, Ozone is liberated. Ozone is known under the chemical symbol  $O_3$  and is a concentrated form of Oxygen.

Ozone increases the oxygenation of the blood and tissues and also increases the number of red blood corpuscles. Germs and toxins cannot exist in the presence of Ozone and are completely destroyed. Ozone is the most astringent and oxydizing agent known.

Inhalations of Ozone are beneficial diseases in the same manner as pure air is desirable, but it is particularly beneficial in all diseases of the Respiratory Organs, including Tuberculosis, Infectious Diseases, and all conditions where there is imperfect oxidation and where tissue resistance is below par. An Ozone spray has been demonstrated to be healing in ulcers.

## Ozone Generator (Instructions)

No. 28A Ozone Generator.—This instrument when used with the Violet Ray generates large quantities of Ozone which is purified by passing thru the inhalant mixture provided with this instrument. The inhalant



is poured into the receptacle, and when the rubber bulb is agitated, the Ozone bubbles thru this mixture and is inhaled in the form of a vapor.

When using the Ozone Generator, support the Violet-machine on a table so that it will not roll and the Ozone Generator the same as any other glass apparatus. The hand must be in contact with the glass of the Ozone Generator. Fill receptacle with just enough of the glass tube. Agitate rubber bulb very gently. The rubber bulb should be in a vertical position and be careful that the fingers do not cover the hole at the end of the bulb.

The Ozone permeates every cell in the lungs, destroying any germ life and soothing the inflamed tissues. For Anemia, Hay Fever, Coughs, Catarrh, Asthma, Bronchitis, Insomnia, Nervous Debility and Tuberculosis of the Lungs, there is no better treatment.

The treatments are exceedingly agreeable and remind one of a trip to the pine woods.